

Ice Out Essay Grades 4 - 6 Science and Technology

Content Standard and Performance Indicator	1 attempted demonstration (does not meet standards)	2 partial demonstration (partially meets standards)	3 proficient demonstration (meets standards)	4 sophisticated * demonstration (exceeds standards)
<p>Science and Technology (Grade 4) A -3 Describe one living thing in a habitat</p> <p>(Grade 5-6) B -4 Generates examples of the ways that organisms interact with other organisms and the habitat</p>	<p>Accurately describes how the living thing survives the winter including 1-2 of the following:</p> <ul style="list-style-type: none"> • what it eats • how it avoids predators • shelter <p>OR</p> <p>Accurately describes how the living thing survives after ice out including 1-2 of the following:</p> <ul style="list-style-type: none"> • what it eats • how it avoids predators • shelter 	<p>Accurately describes how the living thing survives the winter including 1-2 of the following:</p> <ul style="list-style-type: none"> • what it eats • how it avoids predators • shelter <p>AND</p> <p>Accurately describes how the living thing survives after ice out including 1-2 of the following:</p> <ul style="list-style-type: none"> • what it eats • how it avoids predators • shelter 	<p>Accurately describes how the living thing survives the winter including all:</p> <ul style="list-style-type: none"> • what it eats • how it avoids predators • shelter <p>AND</p> <p>Accurately describes how the living thing survives after ice out including all:</p> <ul style="list-style-type: none"> • what it eats • how it avoids predators • shelter 	<p>Accurately describes with great detail how the living thing survives the winter including all:</p> <ul style="list-style-type: none"> • what it eats • how it avoids predators • shelter <p>AND</p> <p>Accurately describes with great detail how the living thing survives after ice out including all:</p> <ul style="list-style-type: none"> • what it eats • how it avoids predators • shelter

(Grade 4) B - 4 Investigate the connection between living and non-living components of the lake ecosystem in winter and spring	Many inaccuracies in the description of the lake and the relationship to the living thing.	Some inaccuracies in the description of the lake with and without ice. AND Some inaccuracies how the ice affects the living thing's habitat or ability to find food.	Accurately describes the difference in the physical conditions of lake when it is covered with ice and after ice out. AND How the ice affects the living thing's habitat and ability to find food.	Advanced description
(Grades 5-6) A - 3 Describe some behavioral adaptations that allow organisms to survive in a changing environment	Inaccurately describes how ice out can affect a living thing.	Accurately describes how ice out can affect the living thing. (1 benefit or 1 difficulty)	Accurately describes how ice out can affect the living thing. (1 benefit and 1 difficulty)	Accurately describes how ice out can affect the living thing. (2 benefits and 2 difficulties)
(Grades 5-6) B - 3 Describe ways that ecosystems can change over time.	Does not think the lake can change over time and there will be no effect on the living thing.	Has an incomplete understanding of ice out date change over time.	Interprets ice out graph	Speculates how the food web in the lake would change and or how the habitat of the lake may change.

* **Sophisticated:** exceeding the expectation of age or developmental level, applying skills or concepts in a novel way.

****Not scorable (NS):** No evidence of indicator/illegible work/off task response/appearance of too much adult assistance